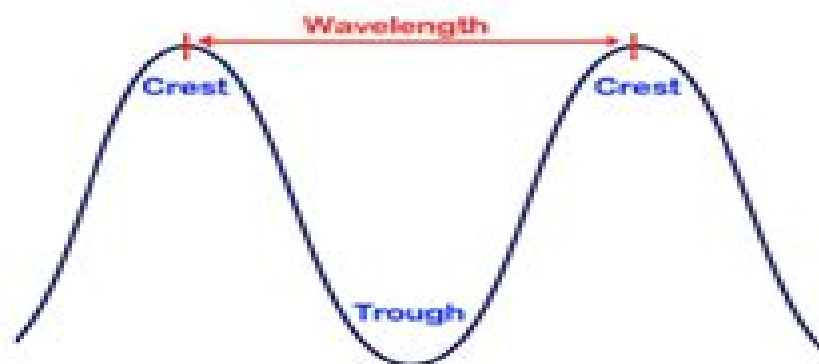


The Electromagnetic Spectrum POGIL Activity



Wavelength (λ) - Units: m, cm, nm

Frequency (ν) - the # of waves that pass a given point in one second.

Units: Hz, sec^{-1} , waves/sec, 1/sec

The relationship between frequency (f) and wavelength (λ) of a wave is described by the equation

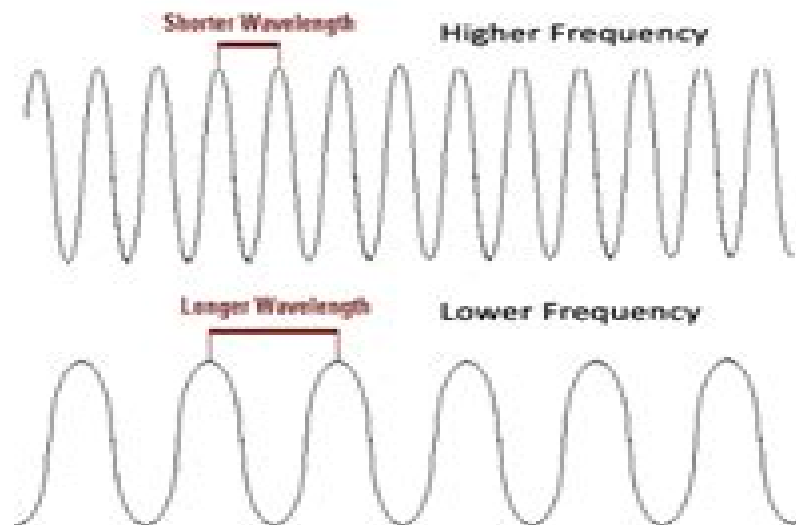
$$\text{Waves speed} = \text{frequency} \times \text{wavelength} \quad \text{OR} \quad c = \nu \lambda$$

All electromagnetic radiation propagates at a speed of $c = 3.00 \times 10^8$ m/sec (approximately 186,000 miles per second) this is called the speed of light!

When solving problems using c (the speed of light) ν MUST be in Hz or sec^{-1} and λ MUST be in meters.

Problems

1. What is the wavelength of radiation with a frequency of $6.24 \times 10^{13} \text{ sec}^{-1}$?
2. What is the frequency of radiation with a wavelength of 2.20×10^{-6} nm? (1 nm = 10^{-9} m or $10^9\text{nm}=1\text{m}$)
3. A television relay transmitter operates at a frequency of 927.9 MHz. Calculate the wavelength of the signal in nanometers. Is this visible light? (1 MHz = 1,000,000 Hz)



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